

Title (en)  
Bullet- and blast-resistant window and associated apparatus

Title (de)  
Kugel- und explosionssicheres Fenster und zugehörige Vorrichtung

Title (fr)  
Fenêtre pare-balles résistant à l'explosion et appareil associé

Publication  
**EP 2988088 A1 20160224 (EN)**

Application  
**EP 14425108 A 20140820**

Priority  
EP 14425108 A 20140820

Abstract (en)  
The present invention refers to a bullet- and blast-resistant window (40), in particular for use in a motor vehicle, which comprises a ballistic block (41) having a peripheral face and a plurality of panes of glass, ceramic or plastic material bonded to each other over their surfaces in a layered composite, and interposed bonding interlayers of plastic material or adhesive, wherein an edge groove (41.31) having slopes at least partly inclined for engagement with a part of the vehicle body (51.2) and extending on and along at least a part of the peripheral edge of the window (40).

IPC 8 full level  
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**B60J 1/008** (2013.01 - EP US); **B60J 1/2094** (2013.01 - US); **F41H 5/0407** (2013.01 - EP US); **F41H 5/263** (2013.01 - EP US)

Citation (applicant)  
EP 0890467 B1 20021002 - DAIMLER CHRYSLER AG [DE]

Citation (search report)  
• [XY] DE 10300397 B3 20040603 - DAIMLER CHRYSLER AG [DE]  
• [X] DE 19601982 C1 19961212 - DAIMLER BENZ AG [DE]  
• [Y] DE 10340907 A1 20050407 - DAIMLER CHRYSLER AG [DE]  
• [Y] WO 0153769 A1 20010726 - SACHSEN RING ENTWICKLUNGSGMBH [DE], et al  
• [AD] EP 0890467 A1 19990113 - DAIMLER BENZ AG [DE]

Cited by  
DE102019131483A1; EP3537092A1; CN109178195A

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